

AD _____

GRANT NUMBER DAMD17-98-1-8117

TITLE: Extreme Prematurity and the Risk of Breast Cancer - A Cohort Study

PRINCIPAL INVESTIGATOR: Anders R. Ekbom, M.D., Ph.D.

CONTRACTING ORGANIZATION: Karolinska Institute
S-171 77 Stockholm Sweden

REPORT DATE: May 1999

TYPE OF REPORT: Annual

PREPARED FOR:
U.S. Army Medical Research and Materiel Command
Fort Detrick, Maryland 21702-5012

DISTRIBUTION STATEMENT: Approved for Public Release;
Distribution Unlimited

The views, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision unless so designated by other documentation.

DTIC QUALITY INSPECTED 4

19990902 079

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE May 1999		3. REPORT TYPE AND DATES COVERED Annual (6 Apr 98 - 5 Apr 99)
4. TITLE AND SUBTITLE Extreme Prematurity and the Risk of Breast Cancer - A Cohort Study			5. FUNDING NUMBERS DAMD17-98-1-8117	
6. AUTHOR(S) Anders R. Ekbom, M.D., Ph.D.				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Karolinska Institute S-171 77 Stockholm Sweden			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Army Medical Research and Materiel Command Fort Detrick, Maryland 21702-5012			10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for Public Release; Distribution Unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) All the necessary approvals from the different government agencies such as the Swedish Data Inspection Board, the Swedish Cancer Registry, the Swedish Death Registry and the Swedish Emigration Registry have been procured. Two abstractors have been employed and are presently working in the different archives. They are presently retrieving information from the ledgers and also tracing the women through the population ledgers. Until now, May 1, just over 100,000 female births have been assessed yielding the expected number of those born extreme premature and/or with a birth weight less than 2,000 grams. Thus, the retrieval process is within the framework of the time plan in our proposal and the tracing will be completed in April, 2000.				
14. SUBJECT TERMS Breast Cancer			15. NUMBER OF PAGES 5	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited	

FOREWORD


Opinions, interpretations, conclusions and recommendations are those of the author and are not necessarily endorsed by the U.S. Army.

____ Where copyrighted material is quoted, permission has been obtained to use such material.

____ Where material from documents designated for limited distribution is quoted, permission has been obtained to use the material.

____ Citations of commercial organizations and trade names in this report do not constitute an official Department of Army endorsement or approval of the products or services of these organizations.

____ In conducting research using animals, the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals," prepared by the Committee on Care and use of Laboratory Animals of the Institute of Laboratory Resources, national Research Council (NIH Publication No. 86-23, Revised 1985).

 For the protection of human subjects, the investigator(s) adhered to policies of applicable Federal Law 45 CFR 46.

____ In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

____ In the conduct of research utilizing recombinant DNA, the investigator(s) adhered to the NIH Guidelines for Research Involving Recombinant DNA Molecules.

____ In the conduct of research involving hazardous organisms, the investigator(s) adhered to the CDC-NIH Guide for Biosafety in Microbiological and Biomedical Laboratories.


PR - Signature

990503
Date

TABLE OF CONTENTS

Introduction	Page 2
Body	Page 2
Key research accomplishments	Page 2
Reportable outcomes	Page 2
Conclusions	Page 2
References	Page 2
Appendices	Page 2
Binding	Page 2
Final reports	Page 2

Introduction

In order to test the hypothesis of an association between high/low hormone levels early in life and breast cancer we are planning to follow up a cohort of women born before the 35th gestational week and/or with a birth weight under 2,000 gram. This will be done by manually scrutinizing 290,000 birth charts of women born between the years 1925 to 1949 in central Sweden and following them up for the occurrence of breast cancer.

Body

The tasks as they are outlined in the approved Statement of Work:

Task 1: Apply to, and negotiate with, the Swedish Data Inspection Board for permission to link the cohort with the Swedish Cancer Registry, the Swedish Death Registry and the Swedish Emigration Registry. This has been completed and the linkage will be done as soon as the cohort is defined.

Task 2: The employment of two abstractors for the field work in the different archives is done. Ms. Incan Gedin and Ms. Margareta Andersson are presently employed full-time for this purpose.

Task 3: The retrieval of information from the ledgers has started and are on its way. Until May 1, 1999, just over 100,000 birth charts of female births during the time period 1925 to 1949 have been scrutinized. The tracing of these women has also started through the population ledgers..

Key research accomplishments

Preliminary data indicate that we will have no problems to identify a cohort of the size which was in the proposal.

Reportable outcomes

No reportable outcomes at this stage.

Conclusions

No results as such can be reported but we foresee no difficulties to fulfill our undertaking in our research proposal and having the cohort defined in April, 2000, followed by the planned linkage procedures to the different Swedish registries.

Appendices

No appendices.

Final reports

A final report, as a paper, will be completed in October, 2000.